

7-19168.43
930-1935 ACCIDENTS ON STEAM RAILROADS IN PENNSYLVANIA

Compiled by the
Bureau of Accidents
of
The Public Service Commission
of the
Commonwealth of Pennsylvania
December 31st, 1930

DISTRIBUTION OF ACCIDENTS

NUMBER OF ACCIDENTS	CAUSE OF ACCIDENTS	EMPLOYEES		PASSENGERS		TRESPASSERS		OTHERS		TOTAL		PER CENT	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
75	Collisions.....	5	61	.....	14	.....	.....	.....	.....	5	97	1.13	2.95
918	Grade Crossings.....	.....	.....	.....	.....	.....	.....	.....	.....	132	475	29.80	14.45
36	Derailments.....	8	40	.....	102	.....	5	.....	3	9	150	2.03	4.56
22	Parting of trains.....	.....	25	.....	.....	.....	1	.....	4	.....	30	.91	.....
115	At station or loading platforms.....	1	56	.....	35	.....	2	.....	.....	1	114	.23	3.47
75	Defect or failure of roadway or equipment.....	11	86	.....	24	.....	1	.....	.....	12	111	2.71	3.37
309	Switching.....	2	307	.....	.....	.....	.....	.....	.....	2	307	.45	9.34
58	Struck by overhead or side obstruction.....	6	44	.....	5	.....	3	.....	.....	10	52	2.26	1.58
187	Repairing track or roadbed.....	.....	187	.....	.....	.....	.....	.....	.....	.....	187	.....	5.69
116	Handling freight or baggage.....	.....	116	.....	.....	.....	.....	.....	.....	.....	116	.....	3.53
93	Coupling or Uncoupling.....	6	87	.....	.....	.....	.....	.....	.....	6	87	1.35	2.64
319	Falling from locomotive or car.....	25	211	.....	55	.....	12	.....	.....	34	285	7.67	8.67
357	Jumping on or off locomotive or car.....	4	246	.....	34	.....	58	.....	.....	19	338	4.29	10.28
362	Struck by locomotive or car.....	44	60	.....	5	.....	82	.....	.....	208	154	46.95	4.68
162	Operating hand brakes.....	1	161	.....	.....	.....	.....	.....	.....	1	161	.23	4.90
263	Minor injuries to locomotive crews.....	.....	263	.....	.....	.....	.....	.....	.....	.....	263	.....	8.00
110	Sudden starting or stopping of trains.....	.....	102	.....	10	.....	2	.....	.....	.....	117	.....	3.56
244	Miscellaneous.....	4	150	.....	41	.....	13	.....	.....	4	244	.90	7.42
3,821	Total.....	117	2202	3	325	182	179	141	582	443	3288	100.00	100.00
	Per cent of total killed.....	26.41	.....	.68	.....	41.08	.....	31.83	.....	100.00	.....	.....	.....
	Per cent of total injured.....	.....	66.97	.....	9.88	.....	5.45	.....	17.70	.....	100.00	.....	.....

COMPARISON OF YEARS 1929 AND 1930
Decrease of 1,636 accidents, or 29.98%
Decrease of 151 killed, or 25.42%
Decrease of 1,389 injured, or 29.70%

KILLED

	1929	1930	DIFFERENCE
Employees.....	169	117	52 Decrease...32.10%
Passengers.....	5	3	2 Decrease...40.00%
Trespassers.....	232	182	50 Decrease...21.55%
Travelers over crossings	166	132	34 Decrease...20.48%
Others.....	22	9	13 Decrease...59.09%
Total.....	594	443	151 Decrease...25.42%

INJURED

	1929	1930	DIFFERENCE
Employees.....	3500	2202	1298 Decrease...37.09%
Passengers.....	251	325	74 Increase...29.48%
Trespassers.....	170	179	9 Increase...5.29%
Travelers over crossings	608	475	133 Decrease...21.87%
Others.....	148	107	41 Decrease...27.70%
Total.....	4677	3288	1389 Decrease...29.70%

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1930

ACCIDENTS ON STEAM RAILROADS IN PENNSYLVANIA

PROPERTY OF THE
PENNA. STATE LIBRARY

RECORD FOR 1931

Compiled by the
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of
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of the
Commonwealth of Pennsylvania
December 31, 1931

DISTRIBUTION OF ACCIDENTS

NUMBER OF ACCIDENTS	CAUSE OF ACCIDENTS	EMPLOYEES		PASSENGERS		TRESPASSERS		OTHERS		TOTAL		PER CENT	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
54	Collisions.....	7	55	.....	68	.....	.....	1	5	8	130	1.94	5.94
719	Grade crossing.....	.....	.....	.....	.....	.....	.....	91	364	91	364	21.96	16.65
28	Derailment.....	14	26	.....	72	.....	1	.....	3	14	102	3.38	4.67
77	At station or loading platforms.....	.....	22	.....	21	.....	3	.....	31	.....	77	3.52	3.52
12	Parting of trains.....	.....	15	.....	.....	.....	.....	.....	2	.....	17	.....	.78
35	Defect or failure of roadway or equipment.....	1	33	.....	1	.....	.....	.....	1	.....	35	.24	1.60
206	Switching.....	.....	206	.....	.....	.....	.....	.....	.....	1	206	.....	9.41
58	Struck by overhead or side obstruction.....	.....	44	.....	1	.....	6	.....	.....	8	51	1.94	2.33
47	Repairing track or roadbed.....	.....	47	.....	.....	.....	.....	.....	.....	.....	47	.....	2.15
46	Handling freight or baggage.....	.....	46	.....	.....	.....	.....	.....	.....	.....	46	.....	2.10
49	Coupling or Uncoupling.....	3	46	.....	.....	.....	.....	.....	.....	.....	46	.....	2.10
238	Falling from locomotive or car.....	27	136	.....	39	.....	22	.....	3	.....	38	.73	9.14
253	Jumping on or off locomotive or car.....	4	140	.....	13	.....	75	.....	.....	25	228	6.04	10.43
334	Struck by locomotive or car.....	30	24	.....	1	.....	89	.....	2	.....	219	52.90	5.26
99	Operating hand brakes.....	.....	99	.....	.....	.....	.....	.....	.....	.....	99	.....	4.53
147	Minor injuries to locomotive crews.....	.....	147	.....	.....	.....	.....	.....	.....	.....	147	.....	6.72
87	Sudden starting or stopping of trains.....	.....	79	.....	11	.....	3	.....	4	.....	97	.....	4.44
177	Miscellaneous.....	4	88	.....	30	.....	10	.....	52	.....	180	1.69	8.23
2,666	TOTAL.....	90	1253	5	256	224	211	95	467	414	2187	100.00	100.00
	Per cent of total killed.....	21.74	.....	1.21	.....	54.10	.....	22.95	.....	100.00	.....	.....	.....
	Per cent of total injured.....	.....	57.30	.....	11.71	.....	9.64	.....	21.35	.....	100.00	.....	.....

COMPARISON OF YEARS 1930 AND 1931
Decrease of 1,155 accidents,
Decrease of 29 killed,
Decrease of 1,101 injured,
or 30.23%
or 6.55%
or 33.49%

KILLED

1930 1931		DIFFERENCE	
Employees.....	117	90	27 Decrease...23.08%
Passengers.....	3	5	2 Increase...66.66%
Trespassers.....	182	224	42 Increase...23.08%
Travelers over crossings	132	91	41 Decrease...31.06%
Others.....	9	4	5 Decrease...55.55%
Total.....	443	414	29 Decrease...6.55%

INJURED

1930 1931		DIFFERENCE	
Employees.....	2202	1253	949 Decrease...43.10%
Passengers.....	325	256	69 Decrease...21.23%
Trespassers.....	179	211	32 Increase...17.88%
Travelers over crossings	475	364	111 Decrease...23.37%
Others.....	107	103	4 Decrease...3.74%
Total.....	3288	2187	1101 Decrease...33.49%

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1931

ACCIDENTS ON STEAM RAILROADS IN PENNSYLVANIA

REPORT FOR 1932

Compiled by
The Investigator of Accidents
of
The Public Service Commission
of the
Commonwealth of Pennsylvania
December 31, 1932

DISTRIBUTION OF ACCIDENTS

NUMBER OF ACCIDENTS	CAUSE OF ACCIDENTS	EMPLOYEES		PASSENGERS		TRESPASSERS		OTHERS		TOTAL		PER CENT	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
48	Collisions.....	3	40	.....	3	.....	.....	70	9	3	52	.82	3.00
556	Grade crossing.....	.....	.....	.....	.....	.....	330	.....	.....	70	330	19.13	19.03
26	Derailments.....	2	27	.....	5	.....	1	.....	1	2	39	.54	2.25
3	Parting of trains.....	.....	4	.....	.....	.....	4	.....	1	.....	9	.27	.52
80	At station or loading platforms.....	.....	28	.....	26	.....	26	.....	3	.....	80	.82	4.61
36	Defect or failure of roadway or equipment.....	3	34	.....	.....	.....	1	.....	.....	1	36	.27	2.07
138	Switching.....	1	137	.....	.....	.....	.....	.....	.....	1	137	.27	7.90
59	Struck by overhead or side obstruction.....	12	27	.....	1	.....	12	.....	.....	19	40	5.19	2.30
30	Repairing track or roadbed.....	.....	30	.....	.....	.....	.....	.....	.....	.....	30	.....	1.73
25	Handling freight or baggage.....	.....	25	.....	.....	.....	.....	.....	.....	.....	25	.....	1.44
32	Coupling or uncoupling.....	1	31	.....	.....	.....	.....	.....	.....	1	31	.27	1.84
236	Falling from locomotive or car.....	15	123	.....	37	.....	34	.....	4	38	198	10.39	11.41
270	Jumping on or off locomotive or car.....	.....	113	.....	22	.....	100	.....	1	34	236	9.29	13.61
281	Struck by locomotive or car.....	20	30	.....	.....	166	57	4	4	190	91	51.92	5.24
88	Operating hand brakes.....	1	87	.....	.....	.....	.....	.....	.....	1	87	.27	5.01
120	Minor injuries to locomotive crews.....	.....	120	.....	.....	.....	.....	.....	.....	.....	120	.....	6.92
64	Sudden starting or stopping of trains.....	.....	57	.....	8	.....	2	.....	.....	.....	71	.....	4.09
119	Miscellaneous.....	2	58	.....	22	.....	14	.....	4	3	122	.82	7.03
2,211	TOTAL.....	60	971	.....	124	232	227	74	412	366	1,734	100.00	100.00
.....	Per cent of total killed.....	16.39	.....	.....	.....	63.39	.....	20.22	.....	100.00	.....	.....	.....
.....	Per cent of total injured.....	.....	56.00	.....	7.15	.....	13.09	.....	23.76	.....	100.00	.....	.....

COMPARISON OF YEARS 1931 AND 1932
Decrease of 455 accidents, or 17.07%
Decrease of 48 killed, or 11.59%
Decrease of 453 injured, or 20.71%

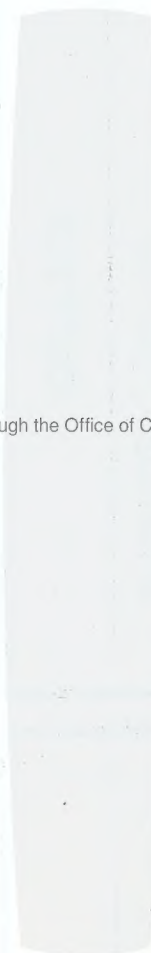
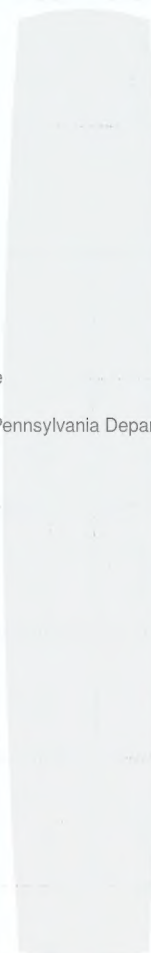
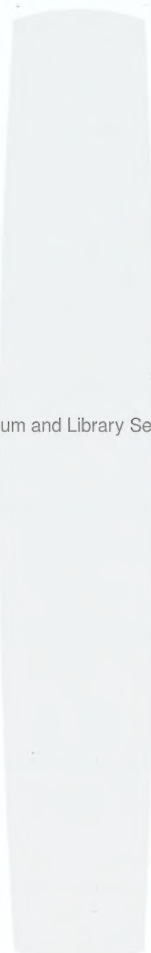
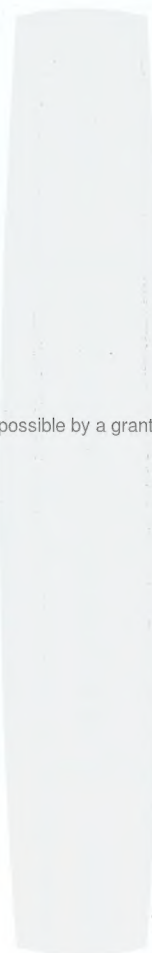
KILLED

1931		1932		DIFFERENCE	
Employees.....	90	60	30	Decrease...	33.33%
Passengers.....	5	.....	5	Decrease...	100.00%
Trespassers.....	224	232	8	Increase...	3.57%
Travelers over crossings	91	70	21	Decrease...	23.08%
Others.....	4	4	None		
Total.....	414	366	48	Decrease...	11.59%

INJURED

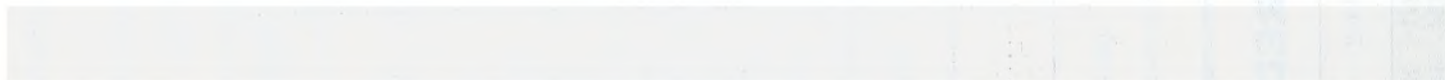
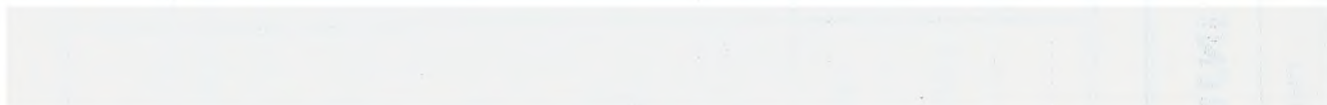
1931		1932		DIFFERENCE	
Employees.....	1253	971	282	Decrease...	22.51%
Passengers.....	256	124	132	Decrease...	51.56%
Trespassers.....	211	227	16	Increase...	7.58%
Travelers over crossings	364	330	34	Decrease...	9.34%
Others.....	103	82	21	Decrease...	20.39%
Total.....	2187	1734	453	Decrease...	20.71%

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ACCIDENTS ON STEAM RAILROADS IN PENNSYLVANIA

REPORT FOR 1933

Compiled by
The Investigator of Accidents
of
The Public Service Commission
of the
Commonwealth of Pennsylvania
December 31, 1933

DISTRIBUTION OF ACCIDENTS

NUMBER OF ACCIDENTS	CAUSE OF ACCIDENTS	EMPLOYEES		PASSENGERS		TRESPASSERS		OTHERS		TOTAL		PER CENT	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
31	Collisions.....	3	22	.....	.....	.....	.....	1	19	4	41	1.03	2.43
528	Grade crossing.....	.....	.....	.....	.....	.....	.....	74	295	74	295	19.02	17.47
30	Derailments.....	5	32	.....	39	9	.....	1	3	15	85	3.85	5.04
11	Parting of trains.....	.....	10	.....	.....	.....	11	.....	.....	.....	11	.....	6.5
78	At station or loading platforms.....	.....	22	.....	31	1	.....	.....	22	.....	78	.....	4.62
37	Defect or failure of roadway or equipment.....	1	31	.....	1	.....	2	.....	5	2	39	.51	2.31
158	Switching.....	1	157	.....	.....	.....	.....	.....	.....	1	157	.26	9.30
65	Struck by overhead or side obstruction.....	1	25	.....	1	10	28	.....	.....	11	54	2.83	3.14
32	Repaired track or roadbed.....	.....	32	.....	.....	.....	.....	.....	.....	.....	32	.....	1.90
26	Handling freight or baggage.....	.....	26	.....	.....	.....	.....	.....	.....	.....	26	.....	1.54
29	Coupling or uncoupling.....	3	26	.....	.....	.....	.....	.....	.....	3	26	.77	1.54
224	Falling from locomotive or car.....	19	110	.....	38	21	36	.....	.....	40	184	10.28	10.90
229	Jumping on or off locomotive or car.....	4	76	2	7	33	107	.....	.....	39	190	10.03	11.25
286	Struck by locomotive or car.....	17	23	.....	.....	175	65	2	4	194	92	49.87	5.45
83	Operating hand brakes.....	1	82	.....	.....	.....	.....	.....	.....	1	82	.26	4.86
103	Minor injuries to locomotive crews.....	.....	103	.....	.....	.....	.....	.....	.....	.....	103	.....	6.10
44	Sudden starting or stopping of trains.....	.....	30	.....	9	.....	4	.....	3	.....	46	.26	2.73
145	Miscellaneous.....	3	64	.....	29	1	19	1	36	4	148	1.03	8.77
2,139	TOTAL.....	58	871	2	155	250	276	79	387	389	1,689	100.00	100.00
	Per cent of total killed.....	14.91	.....	.51	.....	64.27	.....	20.31	.....	100.00	.....	.....	.....
	Per cent of total injured.....	.....	51.57	.....	9.18	.....	16.34	.....	22.91	.....	100.00	.....	.....

COMPARISON OF YEARS 1932 AND 1933

Decrease of 72 accidents,
Increase of 23 killed,
Decrease of 45 injured,
or 3.26%
or 6.28%
or 2.59%

Note:—In addition to the 2,139 accidents, there were 130 Collisions, 339 Derailments, 22 Parting of Trains, 105 Defects and Failures, and 7 Emergency Applications of Brakes, all without any casualties being involved, entailing a property damage loss of \$543,243.23.

KILLED

	1932	1933	DIFFERENCE
Employees.....	60	58	Decrease..... 3.33%
Passengers.....	232	250	Increase..... 7.76%
Trespassers.....	70	74	Increase..... 5.71%
Travelers over crossings	4	5	Increase..... 25.00%
Others.....	.....	.....	.....
Total.....	366	389	23 Increase.... 6.28%

INJURED

	1932	1933	DIFFERENCE
Employees.....	971	871	100 Decrease... 10.30%
Passengers.....	124	155	31 Increase.... 25.00%
Trespassers.....	227	276	49 Increase.... 21.15%
Travelers over crossings	330	295	35 Decrease... 10.61%
Others.....	82	92	10 Increase.... 12.19%
Total.....	1734	1689	45 Decrease... 2.59%

93839

1. Name of the person
 2. Address
 3. City
 4. State
 5. Zip

6. Date
 7. Signature
 8. Printed Name

Item	Quantity	Unit Price	Total Price
1. Apples	10	0.50	5.00
2. Bananas	5	0.40	2.00
3. Oranges	15	0.30	4.50
4. Grapes	8	0.60	4.80
5. Strawberries	12	0.45	5.40
6. Pineapples	3	1.50	4.50
7. Watermelons	2	2.50	5.00
8. Cantaloupes	4	1.25	5.00
9. Honeydew Melons	1	5.00	5.00
10. Kiwis	6	0.80	4.80
11. Mangoes	7	0.70	4.90
12. Papayas	3	1.50	4.50
13. Avocados	4	1.25	5.00
14. Limes	10	0.50	5.00
15. Lemons	8	0.60	4.80
16. Citrus Fruits	5	1.00	5.00
17. Tropical Fruits	3	1.50	4.50
18. Seasonal Fruits	2	2.50	5.00
19. Exotic Fruits	1	5.00	5.00
20. Organic Fruits	4	1.25	5.00

Item	Quantity	Unit Price	Total Price
1. Apples	10	0.50	5.00
2. Bananas	5	0.40	2.00
3. Oranges	15	0.30	4.50
4. Grapes	8	0.60	4.80
5. Strawberries	12	0.45	5.40
6. Pineapples	3	1.50	4.50
7. Watermelons	2	2.50	5.00
8. Cantaloupes	4	1.25	5.00
9. Honeydew Melons	1	5.00	5.00
10. Kiwis	6	0.80	4.80
11. Mangoes	7	0.70	4.90
12. Papayas	3	1.50	4.50
13. Avocados	4	1.25	5.00
14. Limes	10	0.50	5.00
15. Lemons	8	0.60	4.80
16. Citrus Fruits	5	1.00	5.00
17. Tropical Fruits	3	1.50	4.50
18. Seasonal Fruits	2	2.50	5.00
19. Exotic Fruits	1	5.00	5.00
20. Organic Fruits	4	1.25	5.00

ACCIDENTS ON STEAM RAILROADS IN PENNSYLVANIA

REPORT FOR 1934

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The Investigator of Accidents
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Engineering Bureau of the
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Commonwealth of Pennsylvania
December 31, 1934

DISTRIBUTION OF ACCIDENTS

NUMBER OF ACCIDENTS	CAUSE OF ACCIDENTS	EMPLOYEES		PASSENGERS		TRESPASSERS		OTHERS		TOTAL		PER CENT	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
35	Collisions.....	6	27	.....	.....	.....	.....	.....	.....	6	44	1.47	2.44
640	Grade crossing.....	.....	.....	.....	.....	.....	.....	.....	.....	90	384	22.01	21.30
26	Deraillments.....	12	30	9	48	.....	.....	.....	.....	21	93	5.14	5.16
12	Parting of trains.....	1	15	.....	.....	.....	.....	.....	.....	1	15	.24	.83
85	At station or loading platforms.....	.....	15	.....	34	.....	.....	.....	.....	1	84	.24	4.66
38	Defect or failure of roadway or equipment.....	.....	39	.....	5	.....	.....	.....	.....	.....	45	.....	2.50
172	Switching.....	.....	172	.....	.....	.....	.....	.....	.....	.....	172	.....	9.54
36	Struck by overhead or side obstruction.....	5	20	.....	.....	4	7	.....	.....	9	27	2.20	1.50
53	Repairing track or roadbed.....	.....	53	.....	.....	.....	.....	.....	.....	.....	53	.....	2.94
27	Handling freight or baggage.....	.....	27	.....	.....	.....	.....	.....	.....	.....	27	.....	1.50
29	Coupling or uncoupling.....	3	26	.....	.....	.....	.....	.....	.....	3	26	.73	1.44
226	Falling from locomotive or car.....	21	117	1	38	21	26	.....	.....	43	183	10.51	10.15
194	Jumping on or off locomotive or car.....	.....	72	.....	13	24	82	.....	.....	24	170	5.87	9.43
298	Struck by locomotive or car.....	18	22	.....	.....	186	68	2	.....	206	92	50.37	5.10
86	Operating hand brakes.....	1	85	.....	.....	.....	.....	.....	.....	1	85	.24	4.71
85	Minor injuries to locomotive crews.....	.....	85	.....	.....	.....	.....	.....	.....	.....	85	.....	4.71
78	Sudden starting or stopping of trains.....	.....	52	.....	23	.....	2	.....	.....	.....	80	.....	4.44
136	Miscellaneous.....	1	62	.....	20	2	25	1	31	4	138	.98	7.65
2,256	TOTAL.....	68	919	10	181	237	211	94	492	409	1,803	100.00	100.00
	Per cent of total killed.....	16.63	.....	2.44	.....	57.95	.....	22.98	.....	100.00	.....	.....	.....
	Per cent of total injured.....	.....	50.97	.....	10.04	.....	11.70	.....	27.29	.....	100.00	.....	.....

COMPARISON OF YEARS 1933 AND 1934			
Increase of 117 accidents,	or 5.47%		
Increase of 20 killed,	or 5.14%		
Increase of 114 injured,	or 6.75%		

Note:—In addition to the 2,256, there were 140 collisions (19 of this number being on the main line), 343 Deraillments, 17 Parting of Trains, 145 Defects and Failures, and 11 Emergency Applications of Brakes, all without any casualties being involved, but damages in each accident amounting to over \$250.00, entailing a property damage loss in excess of \$650.00.

KILLED

	1933	1934	DIFFERENCE
Employees.....	58	68	10 Increase... 17.24%
Passengers.....	2	10	8 Increase... 400.00%
Trespassers.....	250	237	13 Decrease... 5.20%
Travelers over crossings	74	90	16 Increase... 21.62%
Others.....	5	4	1 Decrease... 20.00%
Total.....	389	409	20 Increase... 5.14%

INJURED

	1933	1934	DIFFERENCE
Employees.....	871	919	48 Increase... 5.51%
Passengers.....	155	181	26 Increase... 16.77%
Trespassers.....	276	211	65 Decrease... 23.55%
Travelers over crossings	295	384	89 Increase... 30.17%
Others.....	92	108	16 Increase... 17.39%
Total.....	1689	1803	114 Increase... 6.75%

P338-39

ACCIDENTS ON STEAM RAILROADS IN PENNSYLVANIA

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Commonwealth of Pennsylvania
December 31, 1935.

DISTRIBUTION OF ACCIDENTS

NUMBER OF ACCIDENTS	CAUSE OF ACCIDENTS	EMPLOYEES		PASSENGERS		TRESPASSERS		OTHERS		TOTAL		PER CENT	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
49	Collisions.....	1	49	.....	1	.....	.....	1	6	2	56	.51	3.42
674	Grade crossing.....	.....	.....	.....	.....	.....	.....	69	319	69	319	17.47	19.49
23	Derailments.....	1	27	.....	2	.....	3	.....	.....	1	32	.25	1.96
5	Parting of Trains.....	.....	7	.....	.....	.....	.....	.....	.....	.....	7	.43	4.89
81	At station or loading platforms.....	.....	17	.....	30	.....	1	.....	32	1	80	.25	8.89
34	Defect or failure of roadway or equipment.....	2	38	.....	2	.....	.....	.....	1	2	41	.51	2.51
176	Switching.....	2	173	.....	.....	.....	5	.....	1	13	20	3.29	10.63
33	Struck by overhead or side obstruction.....	5	15	.....	.....	.....	.....	.....	.....	.....	42	.76	2.57
42	Repairing track or roadbed.....	.....	42	.....	.....	.....	.....	.....	.....	.....	29	.25	1.77
30	Handling freight or baggage.....	1	29	.....	.....	.....	.....	.....	.....	1	41	.76	2.51
44	Coupling or uncoupling.....	3	41	.....	.....	.....	.....	.....	.....	3	182	6.83	11.12
209	Falling from locomotive or car.....	14	118	.....	38	.....	26	.....	.....	27	137	5.32	8.37
158	Jumping on or off locomotive or car.....	2	64	.....	10	.....	60	.....	3	21	89	62.53	5.44
336	Struck by locomotive or car.....	29	17	.....	.....	217	71	.....	1	247	77	.51	4.71
79	Operating hand brakes.....	2	77	.....	.....	.....	.....	.....	.....	2	67	.....	4.10
67	Minor injuries to locomotive crews.....	.....	67	.....	.....	.....	.....	.....	.....	.....	74	.....	4.52
67	Sudden starting or stopping of trains.....	.....	65	.....	7	.....	.....	.....	.....	.....	170	1.01	10.33
170	Miscellaneous.....	2	77	.....	32	.....	25	.....	36	4	.....	.....	.....
2,277	Total.....	64	923	1	122	258	191	72	401	395	1,637	100.00	100.00
	Per cent of total killed.....	16.20	.....	.25	.....	65.32	.....	18.23	.....	100.00	.....	.....	.....
	Per cent of total injured.....	.....	56.38	.....	7.45	.....	11.67	.....	24.50	.....	100.00	.....	.....

COMPARISON OF YEARS 1934 AND 1935			
Increase of 21 accidents,	or .93%		
Decrease of 14 killed,	or 3.42%		
Decrease of 171 injured.	or 9.46%		

In addition to the CASUALTY ACCIDENTS listed above, there were 165 collisions, (18 of this number being on the main line) 419 Derailments; 14 Parting of trains; 129 Defects and Failures; 13 Emergency applications of brakes; all without any casualties being involved, but damage in each accident amounting to over \$250.00, entailing a loss in excess of nearly \$800,000.

KILLED				
	1934	1935	DIFFERENCE	
Employees.....	68	64	4	Decrease. 5.73%
Passengers.....	10	1	9	Decrease. 90.00%
Trespassers.....	237	258	21	Increase. 8.86%
Travelers over crossings.	90	69	21	Decrease. 23.33%
Others.....	4	3	1	Decrease. 25.00%
Total.....	409	395	14	Decrease. 3.42%

INJURED				
	1934	1935	DIFFERENCE	
Employees.....	919	923	4	Increase. .44%
Passengers.....	181	122	59	Decrease. 32.60%
Trespassers.....	211	191	20	Decrease. 9.48%
Travelers over crossings.	389	319	70	Decrease. 17.97%
Others.....	108	82	26	Decrease. 24.07%
Total.....	1808	1637	171	Decrease. 9.46%

